AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

14. (Currently Amended) A method of manufacturing surge arrestors, the method being of the type comprising the steps consisting in of:

making a stack of varistors (10); and

forming a coating (40) of composite material on the stack of varistors (10);

the method being characterized by the fact that wherein:

between the steps of making the stack and forming the coating of composite material (40), the method includes the step of depositing a bead (30) of flexible, adhesive, and dielectric material on the previously-formed stack in register with the various interfaces between each adjacent pair of varistors.

21. (Currently Amended) A method according to claim 1, characterized by the fact that wherein the beads (30) of flexible, adhesive, and dielectric material are made on the basis of an elastomer or a gel, preferably of silicone material.

34. (Currently Amended) A method according to claim 1 or claim 2, characterized by the fact that wherein the material constituting the beads (30) is adapted to eliminate all pockets of air from the interfaces between each adjacent pair of varistors (10), to prevent material penetrating

into said interfaces, and to provide elastic bonding between the stack of varistors (10) and the coating (40) of composite material.

- 44. (Currently Amended) A method according to any one of claims 1 to 3 claim 1, characterized by the fact that wherein each bead (30) has a typical width of 5 mm and a thickness of less than 5 mm.
- 51. (Currently Amended) A method according to any one of claims 1 to 4 claim 1, characterized by the fact that wherein the material constituting the beads (30) has no acetic acid.
- 64. (Currently Amended) A method according to any one of claims 1 to 5 claim 1, characterized by the fact that it further comprises comprising the steps consisting in of depositing an outer envelope (60) on the coating (40) of composite material and using said outer envelope (60) as a mold for shaping the body of the arrestor by a radial compression effect during a polymerization step.
- 74. (Currently Amended) A method according to claim 6, characterized by the fact that wherein the outer envelope (60) possesses annular fins.

81. (Currently Amended) A method according to any one of claims 1 to 7 claim 1, characterized by the fact that it further comprises comprising the step consisting in of depositing beads of adhesive/sealing agent (50) on the coating of composite material (40) prior to installing the outer envelope (60).

94. (Currently Amended) A method according to claim 8, characterized by the fact that wherein the beads (50) of adhesive/sealing agent deposited on the coating of composite material (40) are made of silicone mastic.

10½. (Currently Amended) A method according to claim 8 or claim 9, characterized by the fact that wherein the beads (50) of adhesive/sealing agent deposited on the coating of composite material (40) are shaped as rings.

11/. (Currently Amended) A method according to any one of claims 1 to 10 claim 1, characterized by the fact that wherein the coating of composite material (40) is wound helically.

12½. (Currently Amended) A method according to any one of claims 1 to 11 claim 1, characterized by the fact that wherein the coating of composite material (40) is made by helically winding a preimpregnated woven tape with overlap of 50%.

131. (Currently Amended) A method according to any one of claims 1 to 12 claim 1, characterized by the fact that wherein the coating of composite material (40) has rings of preimpregnated woven tape deposited in register with the interfaces between adjacent pairs of varistors (10).

144. (Currently Amended) A method according to claim 13, characterized by the fact that wherein the arrestor also has an envelope deposited on the coating of composite material (40) to reinforce the dielectric behavior of the arrestor.

151. (Currently Amended) A method according to any one of claims 1 to 14 claim 1, characterized by the fact that wherein the coating of composite material (40) preferably based on glass fibers and epoxy resin, has a resin content lying in the range one-third to one-half by weight.

164. (Currently Amended) A method according to any one of claims 1 to 15 claim 1, characterized by the fact that wherein the coating of composite material (40) is made under axial compression of the stack of varistors (10).

174. (Currently Amended) A method according to any one of claims 1 to 16 claim 1, characterized by the fact that wherein the varistors (10) are not enameled.

181. (Currently Amended) A method according to any one of claims 1 to 16 claim 1, characterized by the fact that wherein the varistors (10) are coated in a fine protective film of a lead-free enamel.

194. (Currently Amended) A surge arrestor of the type comprising a stack of varistors (10) and a coating of composite material (40), the arrestor being characterized by the fact that it further comprises comprising beads (30) of flexible, adhesive, and dielectric material in register with the various interfaces between each adjacent pair of varistors (10).

20½. (Currently Amended) An arrestor according to claim 19, characterized by the fact that wherein the beads (30) of flexible, adhesive, and dielectric material are based on silicone material.

214. (Currently Amended) An arrestor according to claim 19 or claim 20, characterized by the fact that it further comprises comprising an outer envelope (60) having annular fins.

221. (Currently Amended) An arrestor according to any one of claims 19 to 21 claim 1, characterized by the fact that it further comprises comprising beads (50) of an adhesive/sealing agent between the coating of composite material (40) and an outer envelope (60).

231. (Currently Amended) An arrestor according to claim 22, eharacterized by the fact that wherein the beads (50) of adhesive/sealing agent deposited on the coating of composite material (40) are made of silicone mastic.

24/₂ (Currently Amended) An arrestor according to any one of claims 19 to 23 claim 1, characterized by the fact that wherein the coating of composite material (40) is made by helically winding a preimpregnated woven tape with overlap of 50%.

251. (Currently Amended) An arrestor according to any one of claims 19 to 24 claim 1, characterized by the fact that wherein the coating of composite material (40) has a resin content lying in the range one-third to one-half by weight.

264. (Currently Amended) An arrestor according to any one of claims 19 to 25 claim 1, characterized by the fact that wherein the varistors (10) are not enameled.

274. (Currently Amended) An arrestor according to any one of claims 19 to 25 claim 1, characterized by the fact that wherein the varistors (10) are coated in a fine protective film of lead-free enamel.